

**Buffer Zone Contamination Review
(Additional Assessment)**

**Prepared by the
Colorado Department of Public Health and
Environment**

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ADMIN RECORD

BZ-A-000935

1/11

An Assessment of Site Disturbances at RFETS, April, 2003

Prepared by Jeb Love

This report is an update to Buffer Zone Contamination Review, A Review of Information Related to Contamination of the Rocky Flats Buffer Zone, prepared by David Kruchek, CDPHE. The purpose of this report is to follow up on those items noted in the prior report and the Site's responses and review additional material to investigate site disturbances, not part of existing Individual Hazardous Substance Sites or areas already designated for action under RFCA, to determine how they were or will be evaluated relative to potential contamination concerns, and to document their cause, when they may have occurred and final actions taken.

Essentially, all site disturbances still exist and restoration of the specific areas are not covered by any plan or site activities as yet and are an issue separate from this report.

Sources of information used to perform this evaluation are aerial photos for 1937, 1951, 1955, 1962, 1964, 1966, 1969-1971, 1975, 1978-1981, 1982, 1983, 1985-1989-1995, 1998, 2000-2002, (Those years in italics exist in digital format at CDPHE.) Buffer Zone Contamination Review, A Review of Information Related to Contamination of the Rocky Flats Buffer Zone, prepared by David Kruchek, CDPHE, August 23, 1999, CDPHE Buffer Zone Report: Rocky Flats Response to Concerns, May 3, 2001 (DOE 2001) and the Annual Updates to the Historical Release Reports (HRR), Kaiser-Hill, from 1997 to 2002.

Following the numeric list from Buffer Zone Contamination Review, A Review of Information Related to Contamination of the Rocky Flats Buffer Zone, the following information has been found: (Those items which still have outstanding issues are in *italics*.)

Item 1 was designated as a new PAC, SE 1602,

Item 2 debris was cleaned up 8/20/02 and documented in HRR 02,

Item 3 resolution is discussed in DOE 2001,

Item 4 resolution is discussed in DOE 2001,

Item 5 is designated as an overlap to IHSS 155, the 903 pad lip area, HRR 2002,

Item 6 is designated as part of IHSS 216.3,

Item 7, 8 & 9 are to be investigated under the Buffer Zone Sampling and Analysis Plan (BZSAP) and reported in the HRR.

Item 10 a concrete batching plant is discussed in DOE 2001.

Item 11 is designated as a new PAC, NW-1505 and discussed in HRR-01,

Item 12, a pond, is present in 1951 prior to the IA and removed as part of massive work creating the PA in 1981, Area is to be investigated as part of BZSAP,

Item 13, area prepared for radio tower never constructed, DOE 2001,

Item 14, pre IA activities, DOE 2001,

Item 15, The site is related to either Church Ditch or Mckay ditch and does not belong to the U.S. Government,

Item 16, area in question added to IHSS 117.8 & 111.8,

Item 17 & 18, activities in area preceded U.S. government's acquisition of lands in question in 1976 and 1974, respectively. DOE 2001,

Item 19, this area is now included in IHSS 133.5 & 133.6,

Item 20, the general conclusion is these areas are indeed either active prairie dog mounds or remnants of their occupation. As these remnants are noted prior to the IA and the explanation in DOE 2001, is likely except for two areas.

Two areas, one noted in the 1962 photo and another noted in the 1969 photo show paths created by vehicles. (See photos attached). Furthermore, the size of the circles has changed particularly for the area covered in the 1969 photos. More importantly the 1969 photo examined stereoscopically at Colorado Aerial Photo show shadows made from vertical cylindrical manmade objects. These objects would be considerably larger than drums. Therefore, these areas are in need of further investigation to determine the nature of the disturbances. The disturbances are still prominent in 1970, but not by 1978. This information was presented to the stewardship group at DOE for their examination.

Item 21, based on physical inspection and discussion the disturbances are soil and rubble "push off" from grading of the dirt road, DOE 2001,

Item 22, this is Church Pit in operation since 1940s, which is operated by Lakewood Brick and Tile under 1979 permit # M1979045, DOE 2001,

Item 23, Area in question is a borrow area and may of once been a rock quarry, DOE 2001,

Item 24 & 25, resolved per discussion in DOE 2001,

Item 26 & 27, resolved per discussion in DOE 2001 and discussed in HHR 2001,

Item 28 the area is to be included with IHSS 216.2 the East Spray Field investigations, DOE 2001,

Item 29, this area is the site of the Meteorological Tower, DOE 2001,

Item 30, this area is still open to discussion,

Item 31, BZSAP, DOE 2001,

Item 32, this area is part of IHSS 133.5, DOE 2001,

Item 33, this area is part of IHSS 133.2 and 133.3, DOE 2001,

Item 34, This area is part of IHSS 209, which was subject to NFA accepted by EPA & CDPHE, DOE 2001 and HRR 1997,

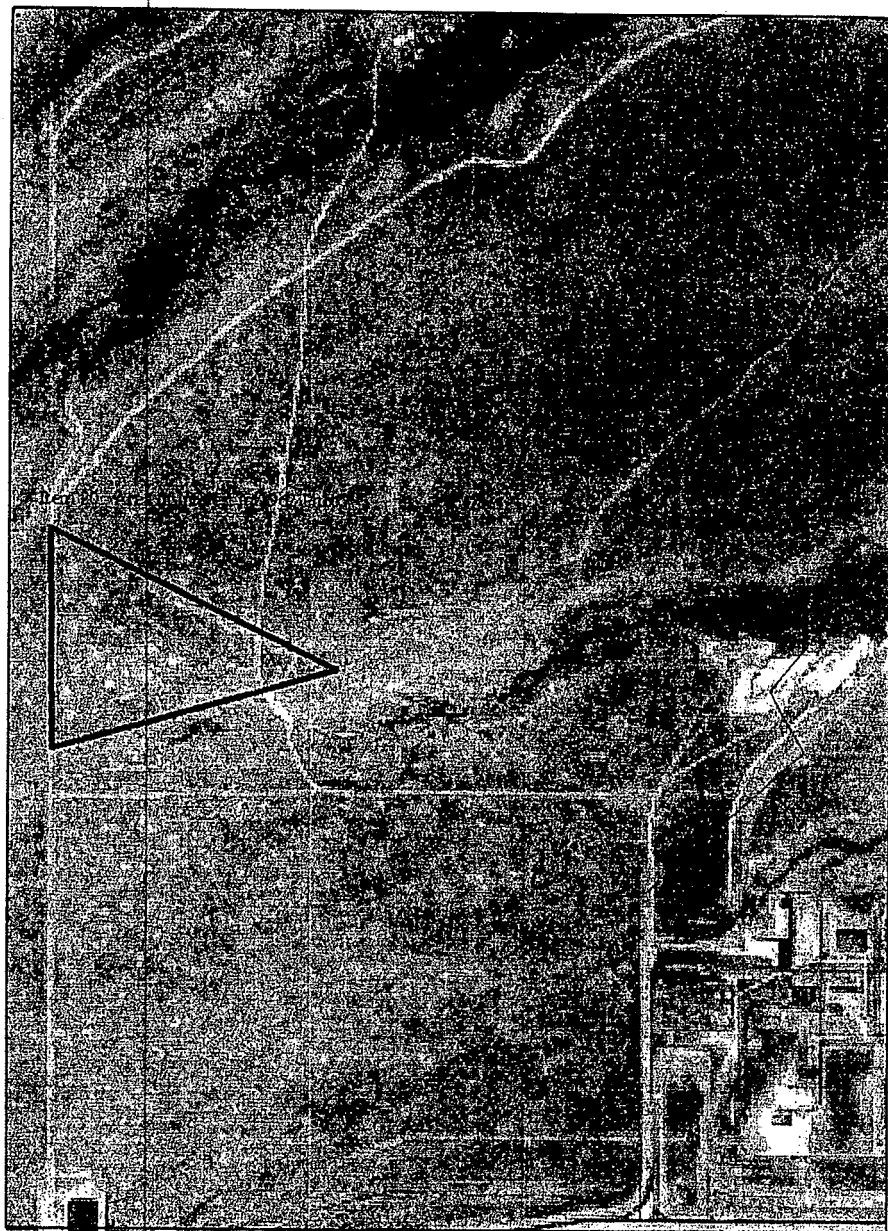
Item 35, this area will be part of IHSS 216.2 & 216.3, DOE 2001,

Item 36, this area where the T130 trailers are located. Further evaluation will be conducted and reported in the annual update to the HRR, DOE 2001,

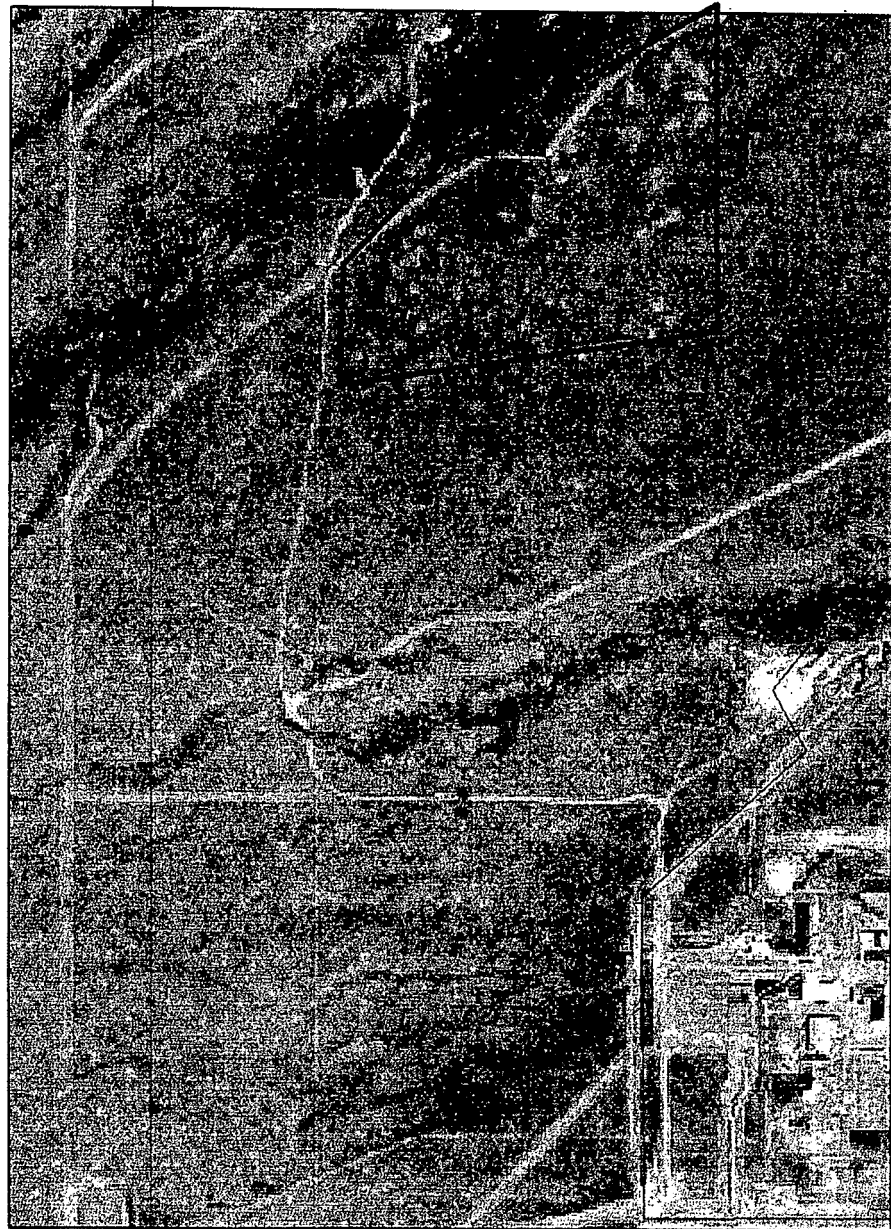
In addition to the two items still open above, additional areas were noted that need clarification or investigation and documentation.

1. The 9/25/1975 aerial photo shows approximately 19 cylindrical objects whose diameter would appear to be in excess of 6 feet, North of Pond A2 and West of the cut for the A3 dam. Discussions with the Stewardship group at DOE suspected possible electrical cable spools, as lines were being installed on site in that time frame. Further investigation to confirm this or what else they might be is necessary. (See photo attached)
2. The 7/29/1983 aerial photo shows a constructed water holding area west of the present landfill. The purpose for and contents of this activity need to be documented and possibly investigated. (See photo attached)
3. The 7/1/1969 photo shows 2 disturbed areas due east of the present landfill and slightly south. What these disturbances were caused by needs to be documented and possibly investigated. (See photo attached)
4. The 6/26/1991 photo 42081-09 shows two dark mounds of material one north and one west of the present landfill. The material is possibly asphalt. What this material is, where it came from and what its ultimate disposition was needs to be investigated and documented.

Item 20: 1962 Aerial Photo



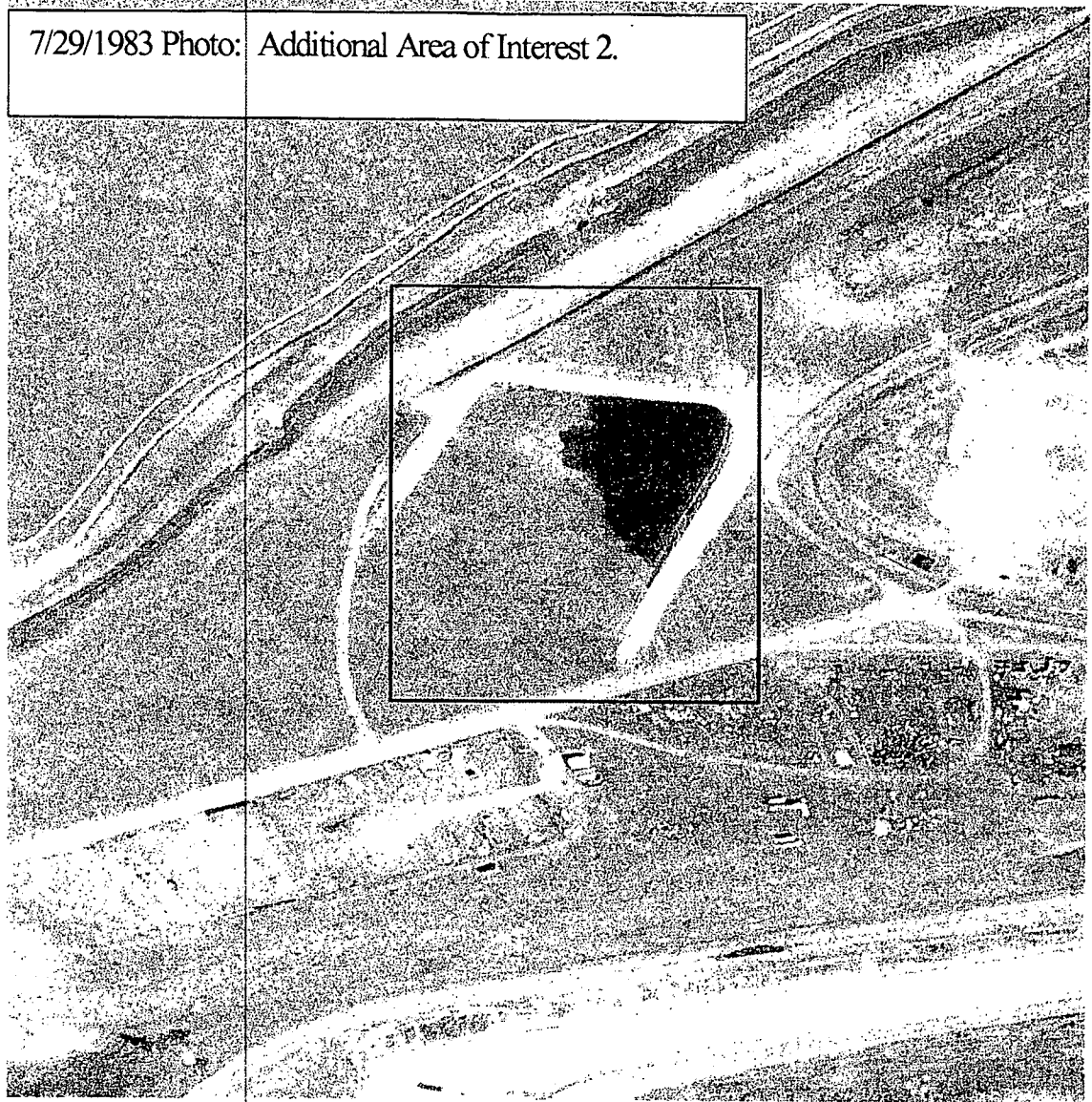
Item 20: 1969 Aerial Photo



9/25/1975 Photo: Additional Area of Interest 1.



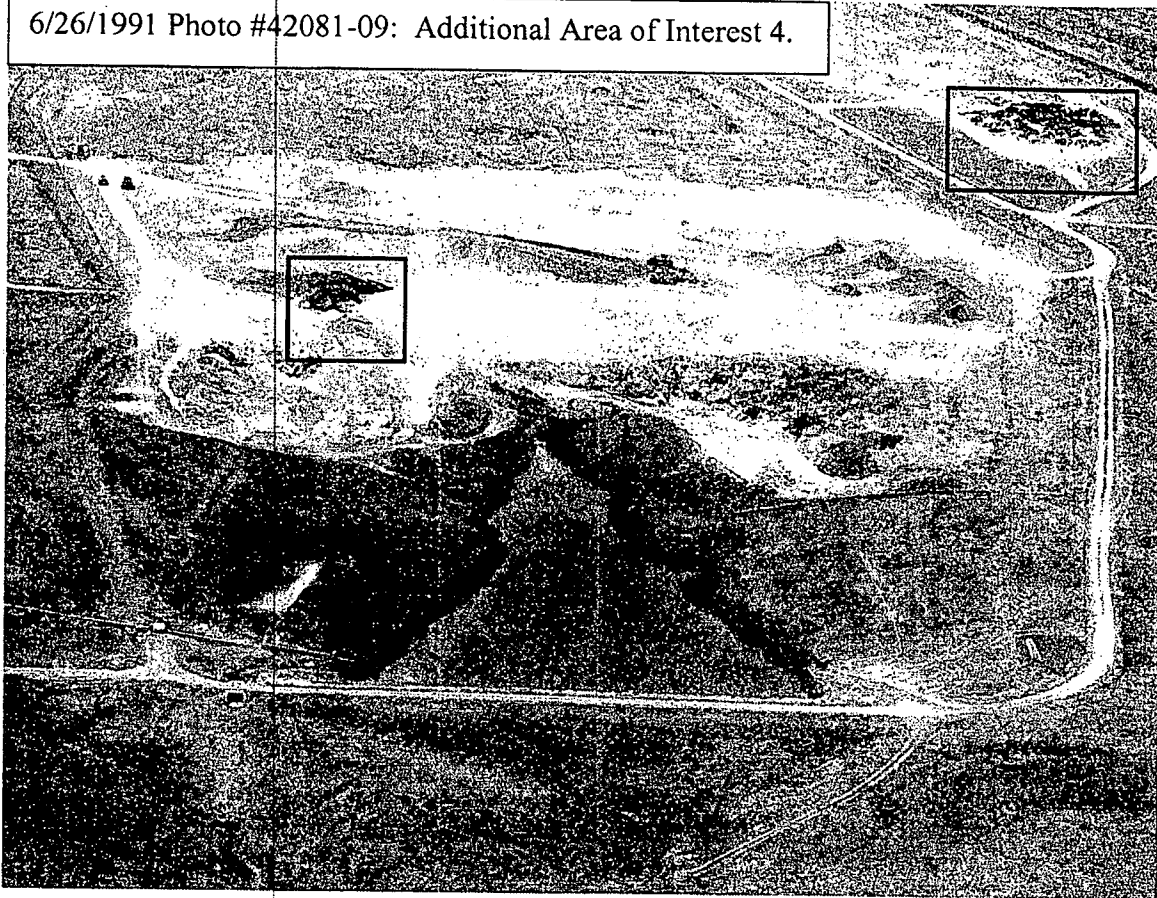
7/29/1983 Photo: Additional Area of Interest 2.

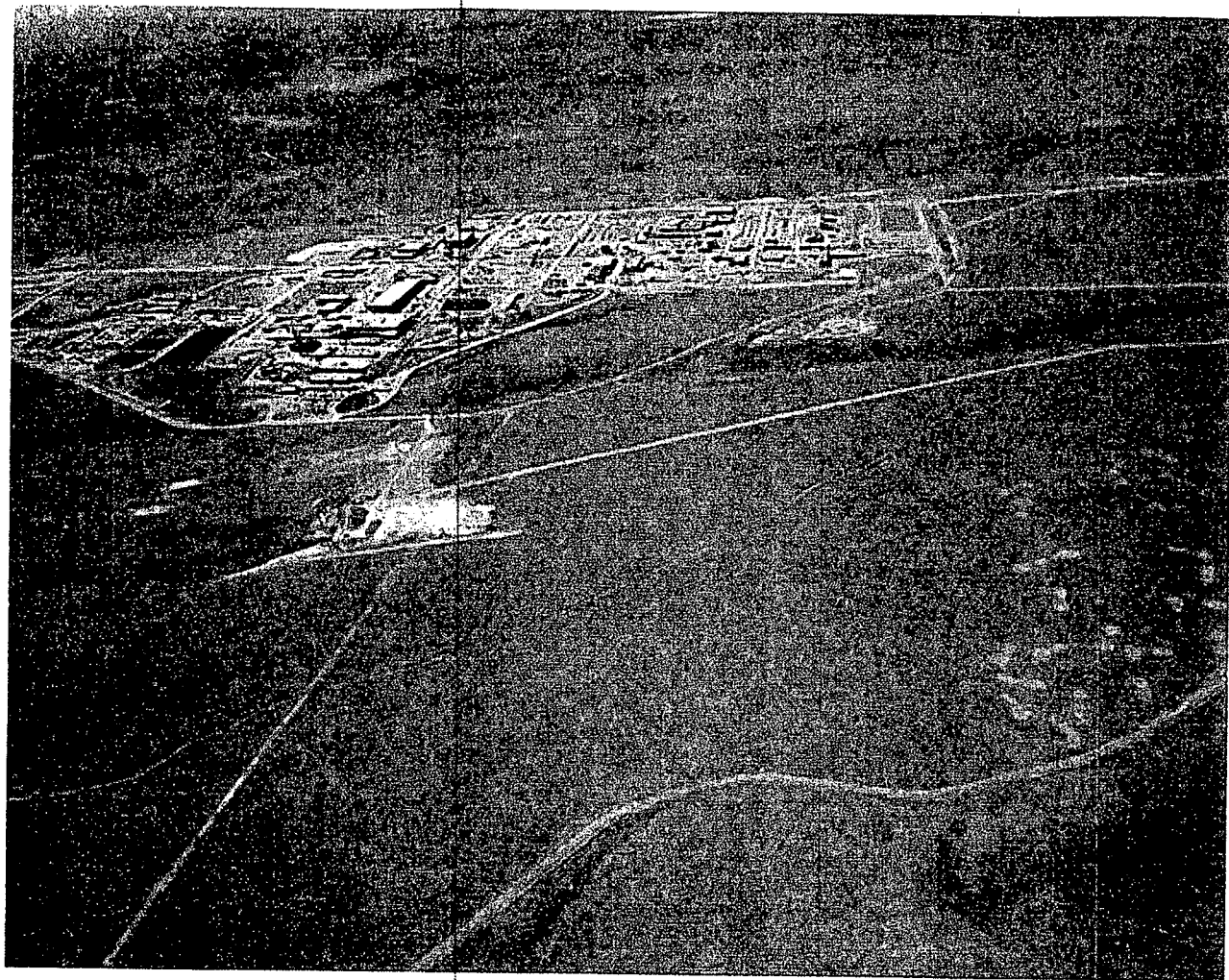


7/1/1969 Photo: Additional Area of Interest 3.



6/26/1991 Photo #42081-09: Additional Area of Interest 4.





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